

(d) a collection container within the enclosure that receives a cell mixture from the multiple trays for harvesting; and

(e) an automation controller that monitors time, media composition, <sup>and</sup> gases and <sup>that</sup> controls movement of the ~~metal~~ trays,

wherein the automation controller fills the multiple trays with the water solution, maintains the pH, tilts the multiple trays, and transfers cells to the collection container.

7. ~~21~~. An automated cell processor as described in claim ~~20~~,<sup>66</sup> wherein said trays are comprised of metal.

8. ~~22~~. An automated cell processor as described in claim ~~21~~,<sup>77</sup> wherein said metal is stainless steel.

9. ~~23~~. An automated cell processor as described in claim ~~20~~,<sup>66</sup> wherein said water solution enters one end of each tray and waste fluid exits the opposite end of each tray.

10. ~~24~~. An automated cell processor as described in claim ~~20~~,<sup>66</sup> wherein each flow duct levels the solution between adjacent culture plates.

11. ~~25~~. An automated cell processor as described in claim ~~20~~,<sup>6</sup> wherein a surface of each tray is sterilized.

12. ~~26~~. An automated cell processor as described in claim ~~20~~,<sup>6</sup> wherein said mammalian cells are myoblast cells.

13. ~~27~~. An automated cell processor as described in claim ~~20~~,<sup>6</sup> wherein said water solution is dispensed to the trays by jets.

1. ~~28~~. An automated cell processor for producing mammalian cells comprising:

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(a) a sterile enclosure having controlled gas, temperature and humidity and

(b) multiple trays stacked parallel to each other within the enclosure, each tray comprising multiple culture plates that contain a water solution and each plate in fluid contact with adjacent plates by one or more flow ducts,

wherein a fluid is automatically dispensed into the trays and waste fluid is removed from the trays by tilting the trays.

2. <sup>2</sup>~~29~~. An automated cell processor as described in claim <sup>1</sup>~~28~~, wherein said trays are comprised of metal.

3. <sup>3</sup>~~30~~. An automated cell processor as described in claim <sup>2</sup>~~29~~, wherein said metal is stainless steel.

4. <sup>4</sup>~~31~~. An automated cell processor as described in claim <sup>1</sup>~~28~~, wherein said fluid enters one end of each tray and said waste fluid exits the opposite end of each tray.

5. <sup>5</sup>~~32~~. An automated cell processor as described in claim <sup>1</sup>~~28~~, wherein one or more of said flow ducts levels said water solution between adjacent culture plates.--